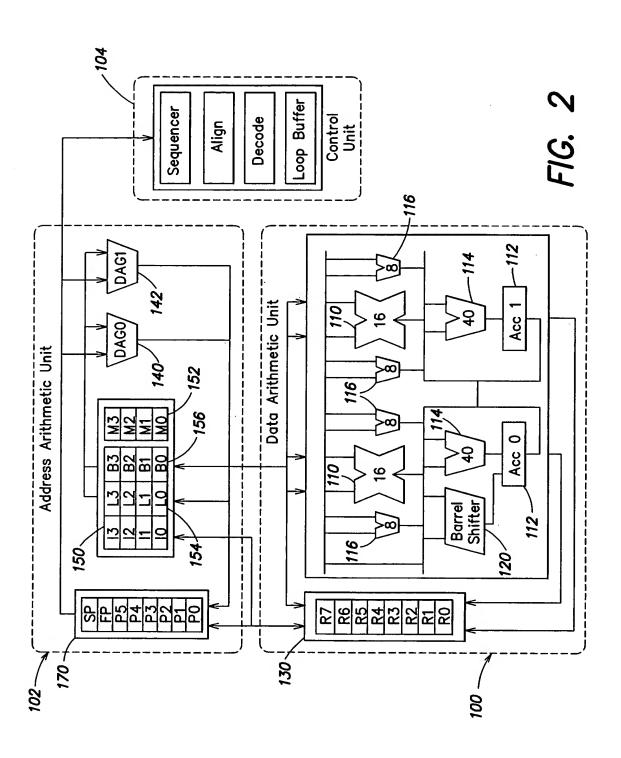
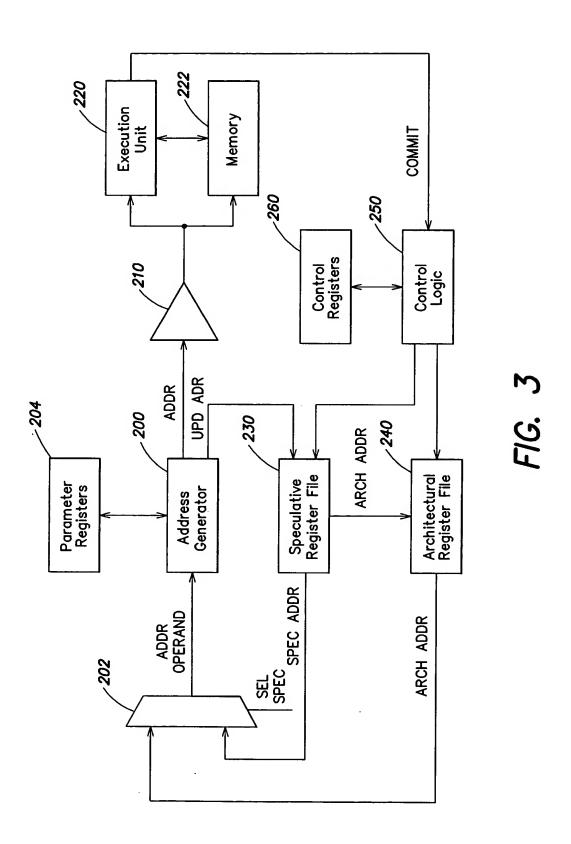


FIG. 1





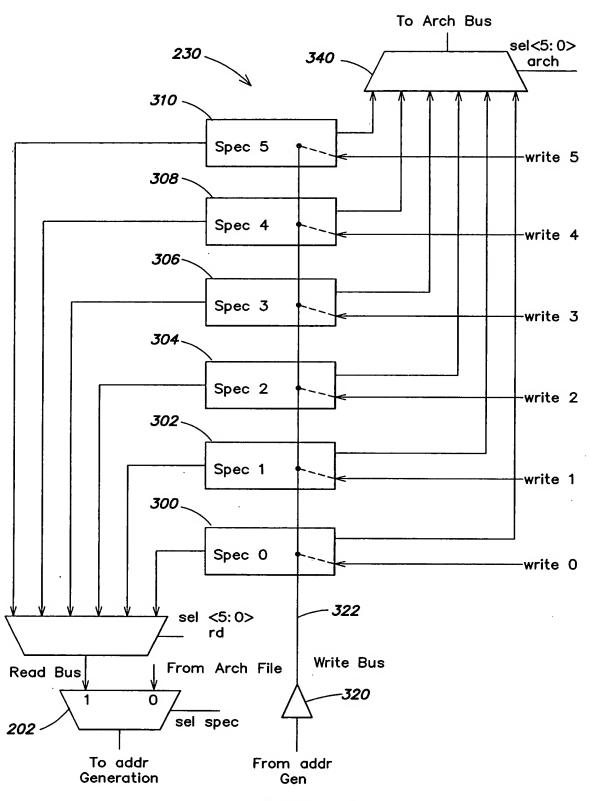
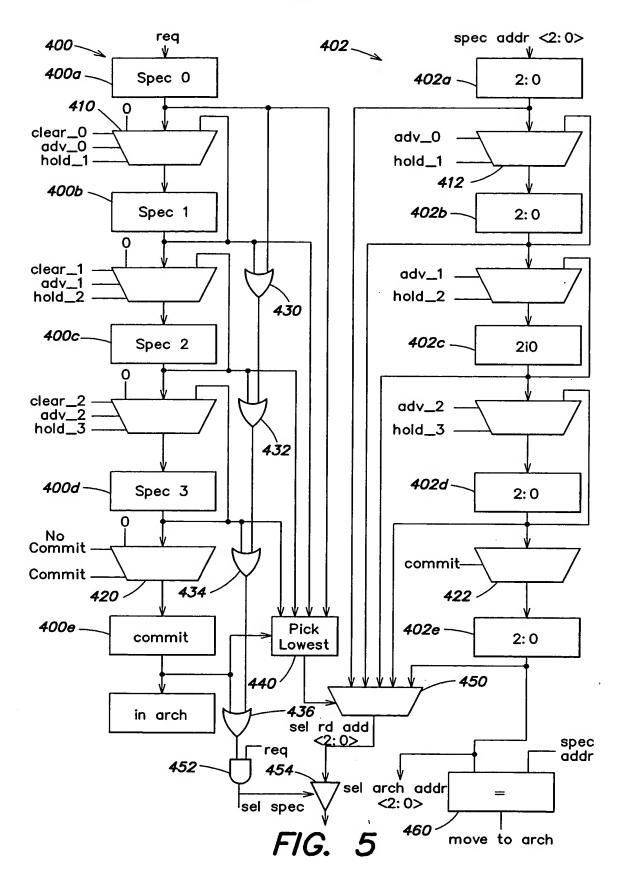


FIG. 4



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Example 0

A
$$ro = [IO ++ MO]$$

B
$$ro = [IO ++ MO]$$

$$C \qquad \text{ro} = [IO ++ MO]$$

D
$$ro = [IO ++ MO]$$

E
$$ro = [IO ++ MO]$$

F
$$ro = [IO ++ MO]$$

$$G$$
 ro = $[IO ++ MO]$

FIG. 6

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INSTR A	10		SF	PEC RF	
Stage	In Spec Reg	ADDR Reg	o	Α	
Spec 0	1	0×0	1	-	
Spec 1	0	0xX	2	-	
Spec 2	0	0×X	3	-	
Spec 3	0	0×X	4	_	
Commit	0	0×X	5	_	
	400	402	_	23	iO

FIG. 7A

INSTR B	Ю		SF	PEC RF	
Stage	In Spec Reg	ADDR Reg] o[Α	
Spec 0	1	0x1	1	В	
Spec 1	1	0x0	2	_	
Spec 2	0	0xX	3	_	
Spec 3	0	0xX	4	_	
Commit	0	0xX	5	_	
	400	402	_		230

FIG. 7B

INSTR C	10		SI	PEC RF	
Stage	In Spec Reg	ADDR Reg	0	Α	
Spec 0	1	0x2	1	В	
Spec 1	1	0x1	2	С	
Spec 2	1	0x0	3	_	
Spec 3	0	0×X	4	-	
Commit	0	0xX	5	_	
	400	402	_		230

FIG. 7C

INSTR D	10		S	PEC RF	
Stage	In Spec Reg	ADDR Reg	0	A	
Spec 0	1	0x3	1	В	
Spec 1	1	0x2	2	С	
Spec 2	1	0x1	3	D	
Spec 3	1	0x0	4	_	
Commit	0	0×X	5	_	
	400	402	, _		230
	—				

FIG. 7D

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INSTR E	10		SF	PEC RF	
Stage	In Spec Reg	ADDR Reg	0	Α	
Spec 0	1	0x4	1	В	
Spec 1	. 1	0x3	2	С	
Spec 2	1	0×2	3	D	
Spec 3	1	0x1	4	Ε	
Commit	1	0x0	5	-	
	400	402	_		230

FIG. 7E

INSTR F	Ю		S	PEC RF	
Stage	In Spec Reg	ADDR Reg	0	_	
Spec 0	1	0x5	1	В	
Spec 1	1	0x4	2	С	
Spec 2	1	0x3	3	D	
Spec 3	1	0×2	4	E	
Commit	1	0x1	5	F	
	400	402	_		230
FIG. 7F					

INSTR G	10		SI	PEC RE	-
Stage	In Spec Reg	ADDR Reg		G	
Spec 0	1	0×0	1	-	
Spec 1	1	0x5	2	С	
Spec 2	1	0x4	3	D	
Spec 3	1	0x3	4	E	
Commit	1	0x2	5	F	
					_ 230

FIG. 7G

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Example 1

FIG. 8

	PO		S	PEC RF	-
Stage	In Spec Reg	ADDR Reg]	Α]
Spec 0	1	0×0	1	_	
Spec 1	0	0xX	2	_	
Spec 2	0	0×X	3		
Spec 3	0	0×X	4	_	
Commit	. 0	0×X	5	_	
	440	442	_		230
	P1				
Stage	P1 In Spec Reg	ADDR Reg] 1	NSTR A	
Stage Spec 0			1		
	In Spec Reg	ADDR Reg			
Spec 0	In Spec Reg	ADDR Reg 0xX			
Spec 0	In Spec Reg 0	ADDR Reg OxX OxX			
Spec 0 Spec 1 Spec 2	In Spec Reg 0 0 0	ADDR Reg OxX OxX			

FIG. 9A

	· PO		SF	PEC RF
Stage	In Spec Reg	ADDR Reg]	Α
Spec 0	0	0×X	1	В
Spec 1	1	0x0	2	-
Spec 2	0	0xX	3	-
Spec 3	0	0×X	4	-
Commit	0	0xX	5	_
	440	442		230
•	P1			
Stage	In Spec Reg	ADDR Reg	11	NSTR B
Spec 0	1	0x1		
Spec 1	0	0×X		
Spec 2	0	0xX		
Spec 3	0	0×X		
Commit	0	0×X		
	450	452	_	

FIG. 9B

	PO		S	PEC RF	
Stage	In Spec Reg	ADDR Reg] o[Α	I
Spec 0	0	0×X	1	В	
Spec 1	0	0xX	2	С	
Spec 2	1	0×0	3	_	
Spec 3	0	0xX	4		
Commit	0	OxX	5	_	
	440	442	, _		230
	P1				
Stage	In Spec Reg	ADDR Reg	"	NSTR C	
	_		1		

Stage	In Spec Reg	ADDR Reg
Spec 0	1	0×2
Spec 1	1	0x1
Spec 2	0	0xX
Spec 3	0	0xX
Commit	0	0xX
	450	452

FIG. 90

	РО		SI	PEC RF	•
Stage	In Spec Reg	ADDR Reg] o[A	
Spec 0	0	0xX	1	В	
Spec 1	0	0xX	2	С	
Spec 2	0	0×X	3	D	
Spec 3	1	0×0	4	_	
Commit	0	0×X	5	-	
	440	442			230
	P1				

INSTR D

	Fi	
Stage	In Spec Reg	ADDR Reg
Spec 0	1	0x3
Spec 1	1	0x2
Spec 2	1	0x1
Spec 3	О	0xX
Commit	0	0xX

. РО			SPEC RF		
Stage	In Spec Reg	ADDR Reg] o[Α	
Spec 0	0	0xX	1	В	
Spec 1	0	0xX	2	С	
Spec 2	0	0×X	3	D	
Spec 3	0	0×X	4	E	
Commit	1	0x0	5	-	
	440	442		230	
	P1				
Stage	In Spec Reg	ADDR Reg	INSTR E		
Spec 0	1	0×4			
Spec 1	1	0x3			
Spec 2	4	0×2			
SP00 2	1	0.2			
Spec 3	1	0x1			

FIG. 9E

PO			SPEC RF		
Stage	In Spec Reg	ADDR Reg]	_	
Spec 0	0	0xX	1	В	١
Spec 1	0	0xX	2	С	
Spec 2	0	0xX	3	D	
Spec 3	0	0×X	4	E	
Commit	0	0xX	5	F	
3.0	440	442	. –		230
	P1				
Stage	In Spec Reg	ADDR Reg	INSTR F		
Spec 0	1	0x5			
Spec 1	1	0x4			
Spec 2	1	0x3			•
Spec 3	1	0x2			
Commit	1	0x1			
			•		